

SEQUENCE LISTINGS

<110> National Cancer Center

<120> Neutralizable epitope of HGF and neutralizing antibody binding to the same

<130> Q94845

<150> KR 10-2003-0079482
<151> 2003-11-11

<150> PCT/KR2004/002888
<151> 2004-11-09

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<400> 3
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<223> Vkappa 3' reverse primer RHybK1-B

<400> 4
agatggtgca gccacagttc gtttgatttc cacattggtg cc 42

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<210> 6

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<400> 9

gctgccaac cagccatggc ccagtcggtg gaggagtccr gg

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<211> 42

<212> DNA

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42

<210> 11

<211> 42

<212> DNA

<213> Artificial Sequence

<220>

<223> VH 5' sense primer RHyVH3

<400> 11

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42

<210> 12

<211> 44

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<400> 12
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<210> 13
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<212> DNA
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<223> VH 3' reverse primer RHyIgGCH1-B

<400> 13
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<210> 14
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<220>
<223> Sense primer HKC-F for amplification of the human Ckappa region and the peIB leader sequence from a cloned human Fab

<400> 14
cgaactgtgg ctgcaccatc tgtc 24

<210> 15
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<223> Reverse primer Lead-B for amplification of the human Ckappa region and the peIB leader sequence from a cloned human Fab

<400> 15
ggccatggct ggttgggcag c 21

<210> 16
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<223> Sense primer HlgGCH1-F for amplification of the human CH1 Chain from a cloned human Fab

<400> 16
gcctccacca agggcccatc ggtc 24

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<211> 21
<212> DNA
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<223> Reverse primer dpseq for amplification of the human CH1 Chain from a cloned human Fab

<400> 17
agaagcgtag tccggaacgt c 21

<210> 18
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Sense primer RSC-F for PCR assembly of rabbit VL sequences with the human Ckappa PCR Product

<400> 18
 gaggaggagg aggaggaggc ggggcccagg cggccgagct c 41

<210> 19
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Sense primer LeadVH for PCR assembly of rabbit VH sequences with the human CH1 PCR product

<400> 19
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<210> 20
 <211> 39
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Reverse primer dp-EX for PCR assembly of chimeric light-chain sequences with chimeric heavy-chain (Fd) sequences

<400> 20
 gaggaggagg aggaggagag aagcgtagtc cggaacgtc 39

<210> 21
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> sequencing primer

<400> 21
 agaaacacaa agtctacgcc 20

<210> 22
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 22
 gttgggcagc gagtaataac 20

<210> 23
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<220>
 <223> nucleotide sequence encoding VH region of clone 61

<400> 23
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 acctgcaaag cctctggatt caccttcagt agctactaca tgagctgggt ccgccaggct 120
 ccaggggaagg ggctggagtg gatcggatac attggtacta gtagtgggtac cacttactac 180
 gcgaactctg tgaagggccg attcaccatc tccagcgaca acgcccagaa taccgtatit 240
 ctgcgaatga ccagtctcac agactcggac acggccacct atttctgtgc aagagggctg 300
 ggcagaatca acttgtgggg ccagggcacc ctgggtcaccg tctcttca 348

<210> 24
 <211> 327

<212> DNA
<213> Artificial Sequence

<220>
<223> nucleotide sequence encoding VL region of clone 61

<400> 24
gagctcgtgc tgaccagac tccatcctct atgtctgcag ctgtgggagg cacagtcacc 60
atcaattgcc aggccagtc gagtggttagc aactacttag cctggatatca gcagaaacca 120
gggcagcctc ccaagctcct gatctacagg gcatccactc tggcatctgg ggtcccatcg 180
cgtttcagcg gcagtggatc tgggacagag ttactctca ccatcagtgg catgaaggct 240
gaagatgctg ccacttatta ctgtcaaagt ggttattata gtgctgggtgc gacttttgga 300
ggtggcacca atgtggaaat caaacga 327

<210> 25
<211> 348
<212> DNA
<213> Artificial Sequence

<220>
<223> nucleotide sequence encoding VH region of clone 68

<400> 25
cagcagcagc tggtaggtc cgggggtcgc ctggtcaatc ctggcgaatc cctgacactc 60
acctgcaaag cctctggatt caccttcagt acctactaca tgagctgggt ccgccaggct 120
ccaggggaagg ggctagagtg gatcggatac attggtacta gtagtggtag cacttactac 180
gcgaactctg tgaagggccg attcaccatc tccagcgaca acgccagaa taccgtattt 240
ctgcaaatga ccagtctgac agactcggac acggccacct atttctgtgc aagagggctg 300
ggcagaatta acttgtagggg cccaggcacc ctggtcaccg tctcctca 348

<210> 26
 <211> 327
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> nucleotide sequence encoding VL region of clone 68

<400> 26
 gagctcgatc tgacccagac tccatcctct gtgtctgcag ctgtgggagg cacagtcacc 60
 atcaattgcc aggccagtca gagtgttagc aacctcttag cctggatatc gcagaaacca 120
 gggcagcctc ccaagctcct gatttatggt gcatccaatc tggaatctgg ggtcccatcg 180
 cgtttccgtg gcagtggatc tgggacagag ttactcttca ccatcagtgg catgaaggct 240
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 gctggcacca atgtggaaat caaacga 327

<210> 27
 <211> 116
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> amino acid sequence of VH region of clone 61

<400> 27
 Gln Glu Gln Leu Met Glu Ser Gly Gly Arg Leu Val Asn Pro Gly Glu
 1 5 10 15
 Ser Leu Thr Leu Thr Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser Tyr
 20 25 30
 Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile

35

40

45

Gly Tyr Ile Gly Thr Ser Ser Gly Thr Thr Tyr Tyr Ala Asn Ser Val
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Gln Asn Thr Val Phe
 65 70 75 80

Leu Arg Met Thr Ser Leu Thr Asp Ser Asp Thr Ala Thr Tyr Phe Cys
 85 90 95

Ala Arg Gly Leu Gly Arg Ile Asn Leu Trp Gly Pro Gly Thr Leu Val
 100 105 110

Thr Val Ser Ser
 115

<210> 28

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> amino acid sequence of VL region of clone 61

<400> 28

Glu Leu Val Leu Thr Gln Thr Pro Ser Ser Met Ser Ala Ala Val Gly
 1 5 10 15

Gly Thr Val Thr Ile Asn Cys Gln Ala Ser Gln Ser Val Ser Asn Tyr
 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
 35 40 45

Tyr Arg Ala Ser Thr Leu Ala Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Gly Met Lys Ala
 65 70 75 80

Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Gly Tyr Tyr Ser Ala Gly
85 90 95

Ala Thr Phe Gly Gly Gly Thr Asn Val Glu Ile Lys Arg
100 105

<210> 29
<211> 116
<212> PRT
<213> Artificial Sequence

<220>
<223> amino acid sequence of VH region of clone 68

<400> 29
Gln Gln Gln Leu Val Glu Ser Gly Gly Arg Leu Val Asn Pro Gly Glu
1 5 10 15

Ser Leu Thr Leu Thr Cys Lys Ala Ser Gly Phe Thr Phe Ser Thr Tyr
20 25 30

Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
35 40 45

Gly Tyr Ile Gly Thr Ser Ser Gly Thr Thr Tyr Tyr Ala Asn Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Ser Asp Asn Ala Gln Asn Thr Val Phe
65 70 75 80

Leu Gln Met Thr Ser Leu Thr Asp Ser Asp Thr Ala Thr Tyr Phe Cys
85 90 95

Ala Arg Gly Leu Gly Arg Ile Asn Leu Trp Gly Pro Gly Thr Leu Val
100 105 110

Thr Val Ser Ser
115

<210> 30
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 <212> PRT
 <213> Artificial Sequence

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 <223> amino acid sequence of VL region of clone 68

<400> 30
 Glu Leu Asp Leu Thr Gln Thr Pro Ser Ser Val Ser Ala Ala Val Gly
 1 5 10 15
 Gly Thr Val Thr Ile Asn Cys Gln Ala Ser Gln Ser Val Ser Asn Leu
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile
 35 40 45
 Tyr Gly Ala Ser Asn Leu Glu Ser Gly Val Pro Ser Arg Phe Arg Gly
 50 55 60
 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Gly Met Lys Ala
 65 70 75 80
 Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Ser Gly Tyr Tyr Ser Ala Gly
 85 90 95
 Ala Thr Phe Gly Ala Gly Thr Asn Val Glu Ile Lys Arg
 100 105

<210> 31
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<220>
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<400> 31
ccctcatagt tagcgtaacg

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<220>
<223> neutralizable epitope of HGF

<400> 32
His His Pro His Phe Lys Pro Val Ser Asn Ser Arg
1 5 10

<210> 33
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> neutralizable epitope of HGF

<400> 33
Lys Ser Leu Ser Arg His Asp His Ile His His His
1 5 10

<210> 34
<211> 36
<212> DNA
<213> Artificial Sequence

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<223> nucleotide sequence encoding SEQ. ID. No. 32

<400> 34

catcatccgc attttaagcc tgtgtctaag agtcgt

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<210> 35

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> nucleotide sequence encoding SEQ. ID. No. 33

<400> 35

aagtctctta gtcggcatga tcatattcat catcat

36